

New

CHEMISTRY

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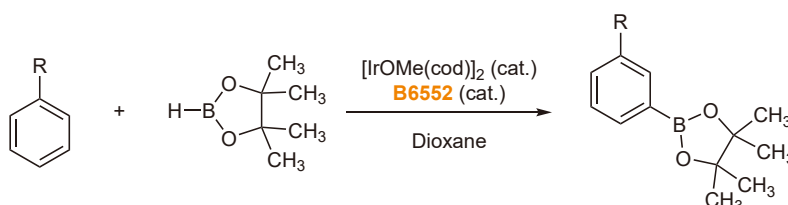
# Spirobipyridine Ligand for *meta*-Selective C-H Borylation



2',7'-Bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-  
spiro[cyclopenta[2,1-*b*:3,4-*b'*]dipyridine-5,9'-fluorene]  
100mg / 500mg  
[B6552]

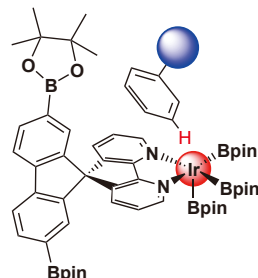
## Advantages

- Allows the highly selective introduction of a boryl group at the *meta*-position of benzene ring
- Applicable to *meta*-selective borylation of arene moieties in a wide range of substrates

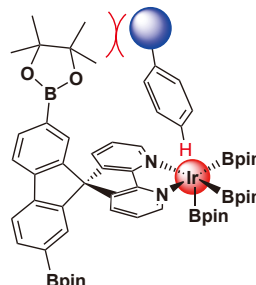


General C-H borylation conditions can be used.

Hydrogen atom at *meta*-position is accessible.



Hydrogen atom at *para*-position is difficult to approach.



The Bpin group of B6552 behaves as a "steric roof" and the hydrogen atom in the *meta*-position of arene moiety preferentially approaches the metal center, resulting in the regioselectivity.

References 1) B. Ramadoss, Y. Jin, S. Asako, L. Ilies, *Science* **2022**, 375, 658. <https://doi.org/10.1126/science.abm7599>  
2) M. Zanda, *Synform* **2022**, 06, A92. <https://doi.org/10.1055/s-0041-1737487>

## Related Products

(1,5-Cyclooctadiene)(methoxy)iridium(I) Dimer (= [IrOMe(cod)]<sub>2</sub>)  
Pinacol Borane

200mg / 1g [C2662]

5g / 25g [T2572]

Ligand for *para*-Selective C-H Borylation

2,2'-Bis[bis(3,5-dimethylphenyl)phosphino]-1,1'-biphenyl

100mg / 500mg [B5957]

## Ordering and Customer Service

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